

Numerical Analysis

EIGHTH EDITION

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CHAPTER 1

Mathematical Preliminaries and Error Analysis



Figure 1.1

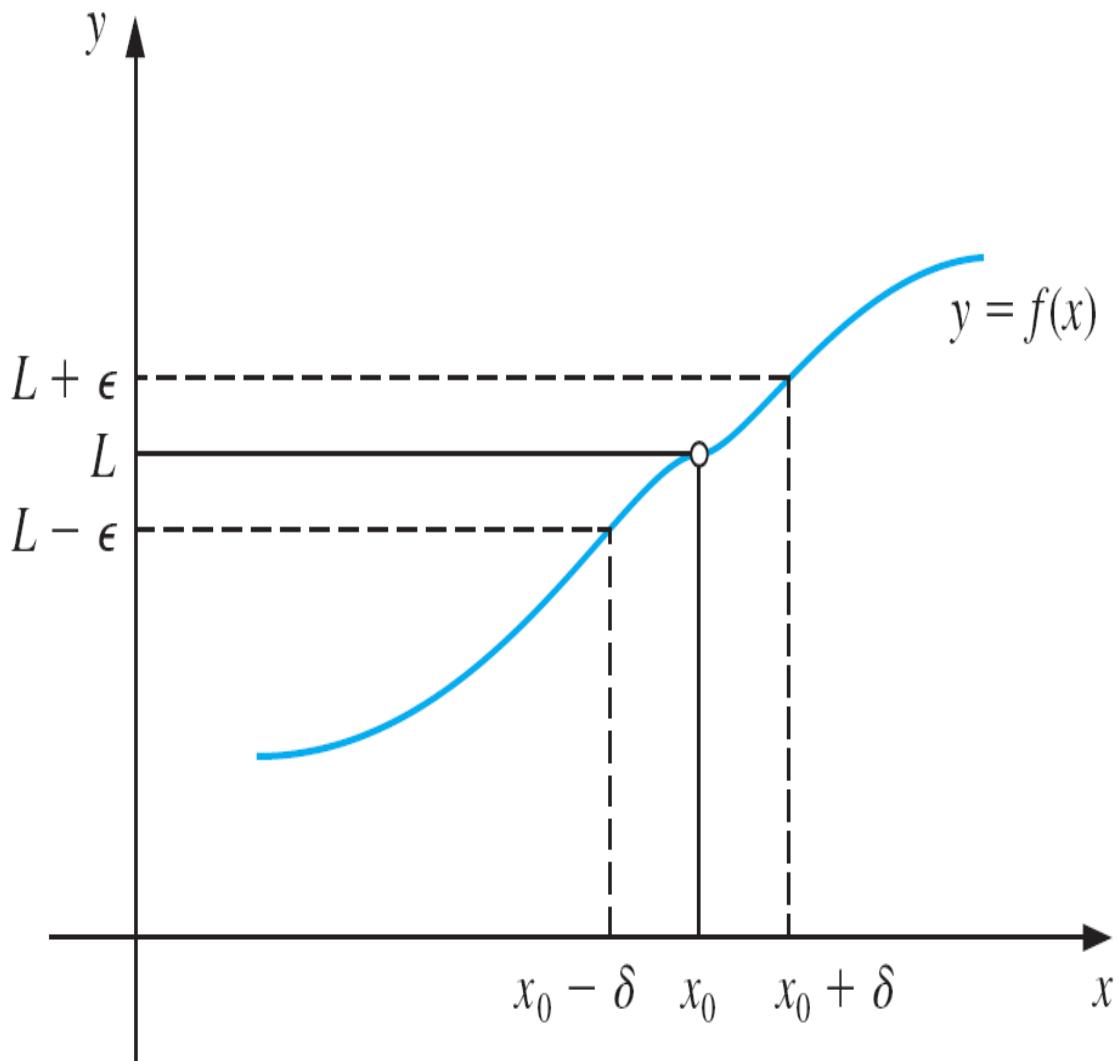


Figure 1.2

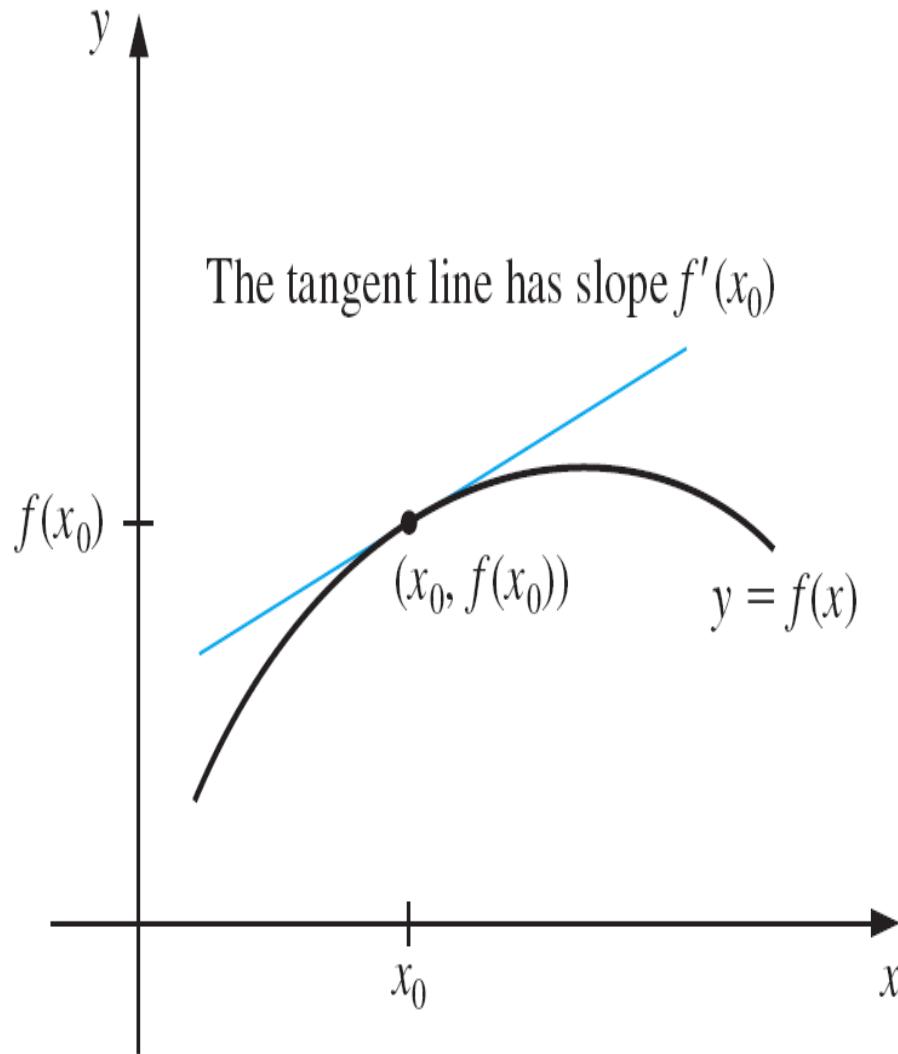


Figure 1.3

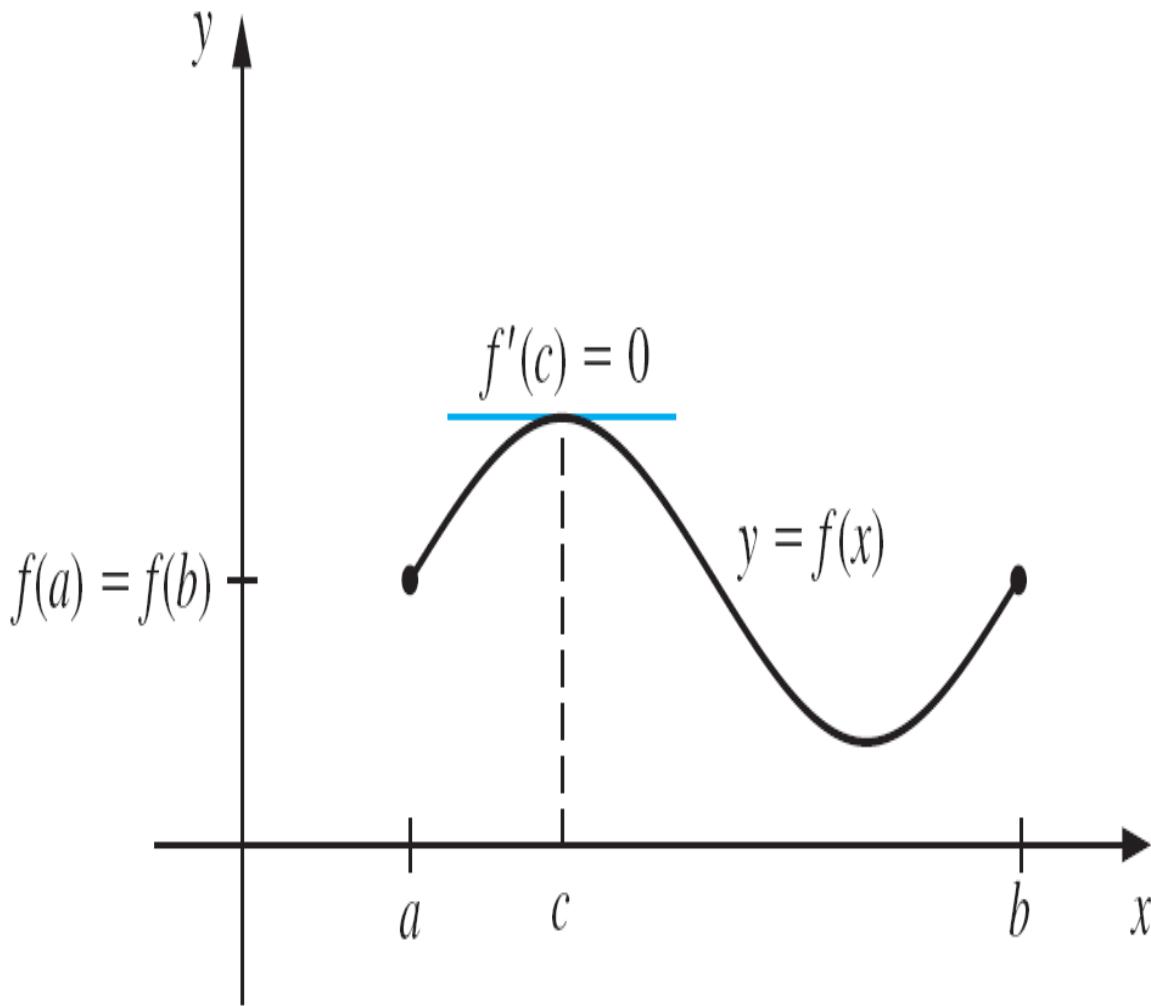


Figure 1.4

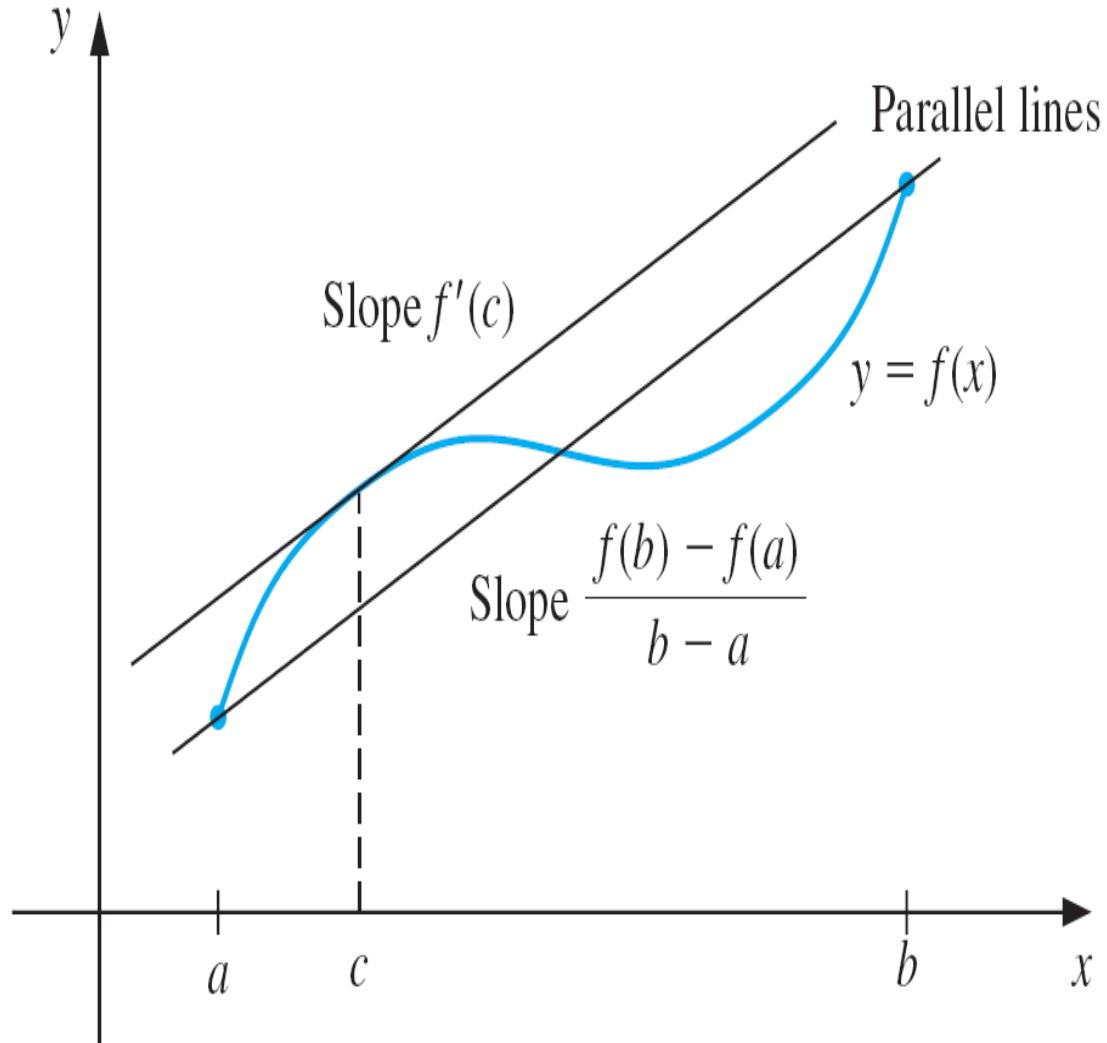


Figure 1.5

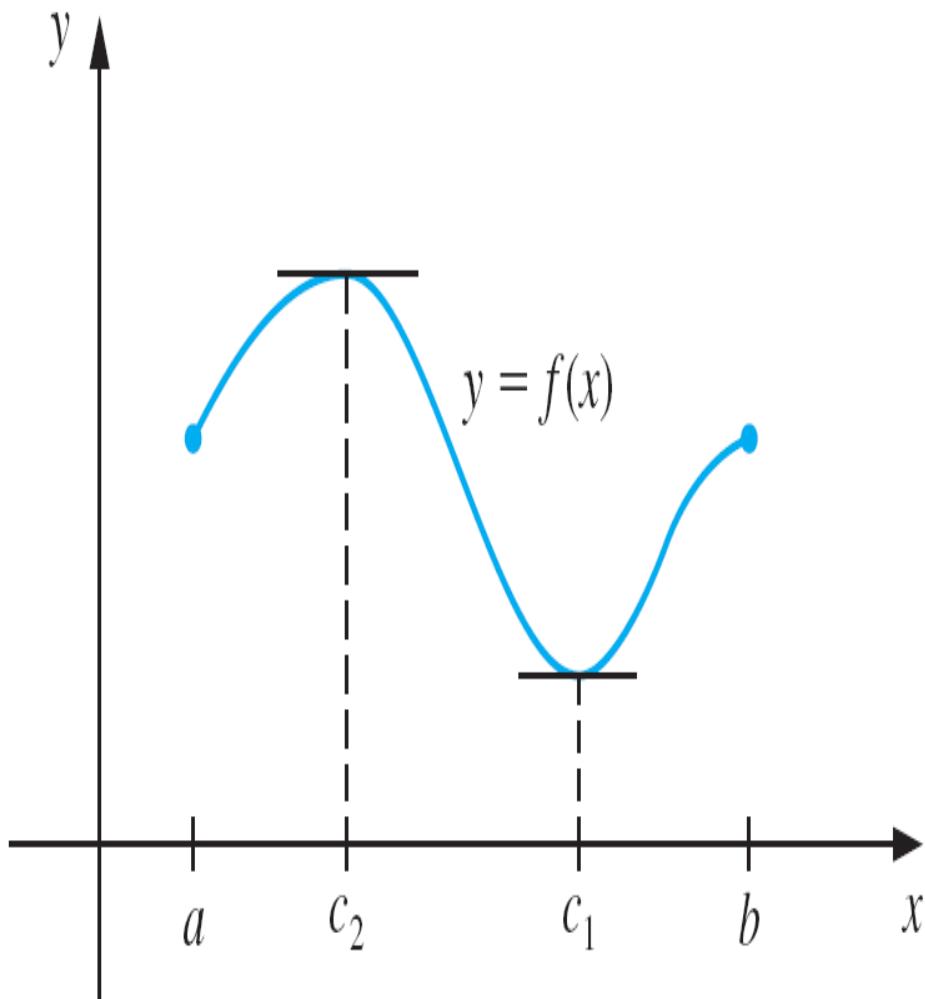


Figure 1.6

Maple V Release 5.1 - [Untitled (1)]

File Edit View Format Style Axes Projection Animation Window Help

1.55, -3.41

```
> with(plots);  
[animate, animate3d, animatecurve, changecoords, complexplot, complexplot3d, conformal, contourplot, contourplot3d, coordplot,  
coordplot3d, cylinderplot, densityplot, display, display3d, fieldplot, fieldplot3d, gradplot, gradplot3d, implicitplot, implicitplot3d,  
inequal, listcontplot, listcontplot3d, listdensityplot, listplot, listplot3d, loglogplot, logplot, matrixplot, odeplot, pareto, pointplot,  
pointplot3d, polarplot, polygonplot, polygonplot3d, polyhedra_supported, polyhedraplot, replot, rootlocus, semilogplot, setoptions,  
setoptions3d, spacecurve, sparsematrixplot, sphereplot, surldata, textplot, textplot3d, tubeplot]  
> f:=5*cos(2*x)-2*x*sin(2*x);  
f := 5 cos(2 x) - 2 x sin(2 x)  
> plot(f, x=0..2);  


[>



Time: 0.0s Bytes: 0.0K Available: 887M


```

Figure 1.7

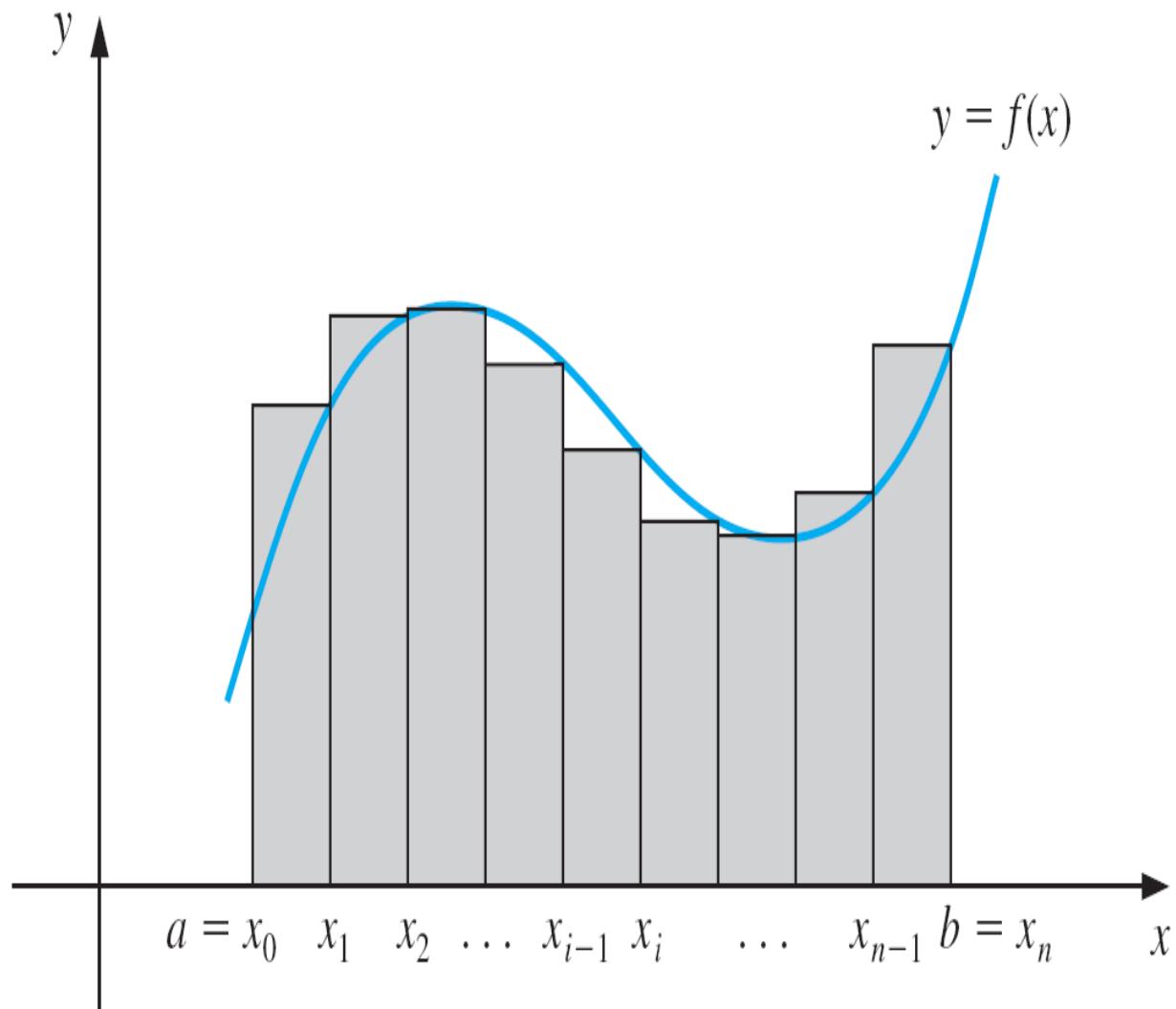


Figure 1.8

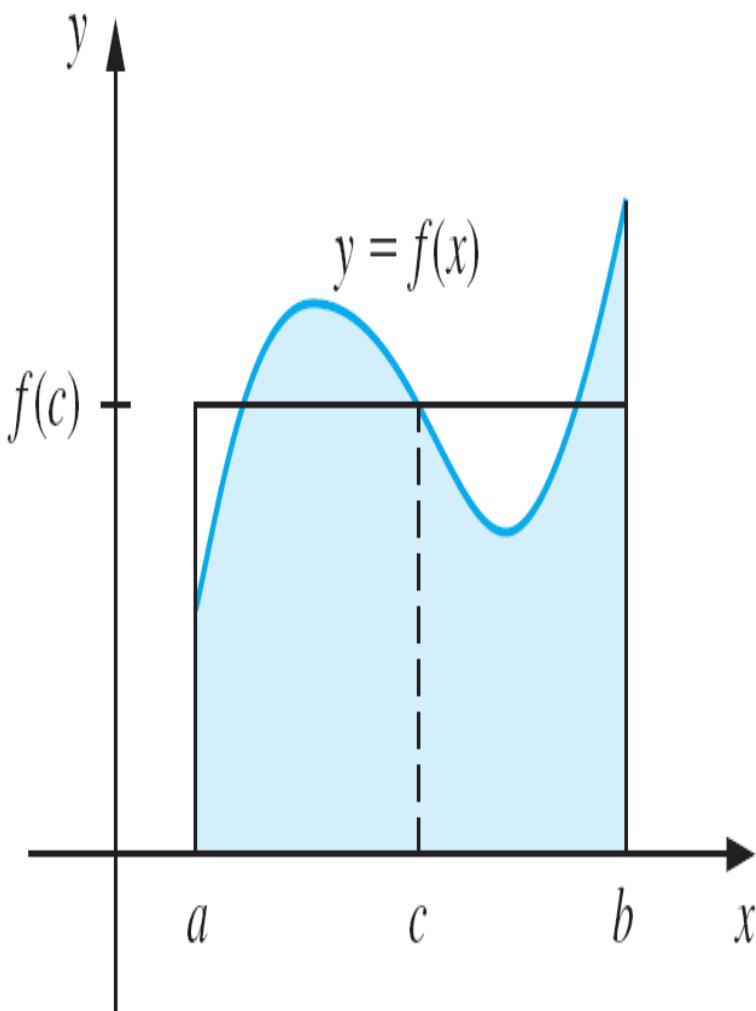


Figure 1.9

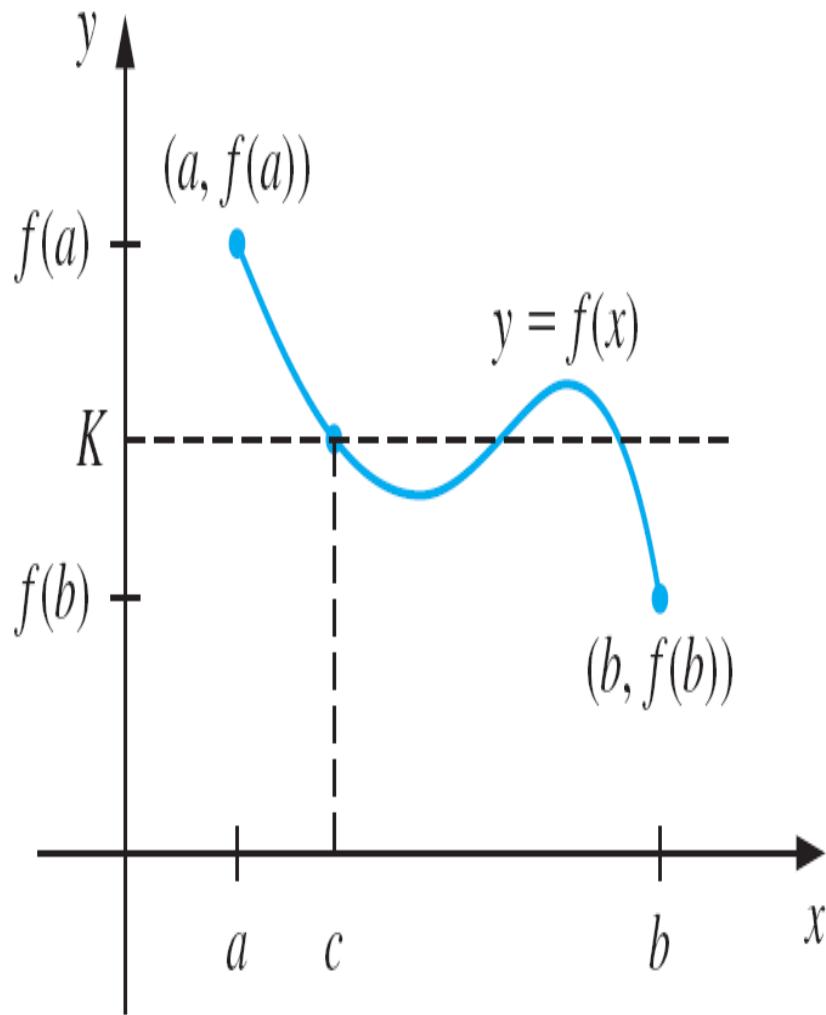


Figure 1.10

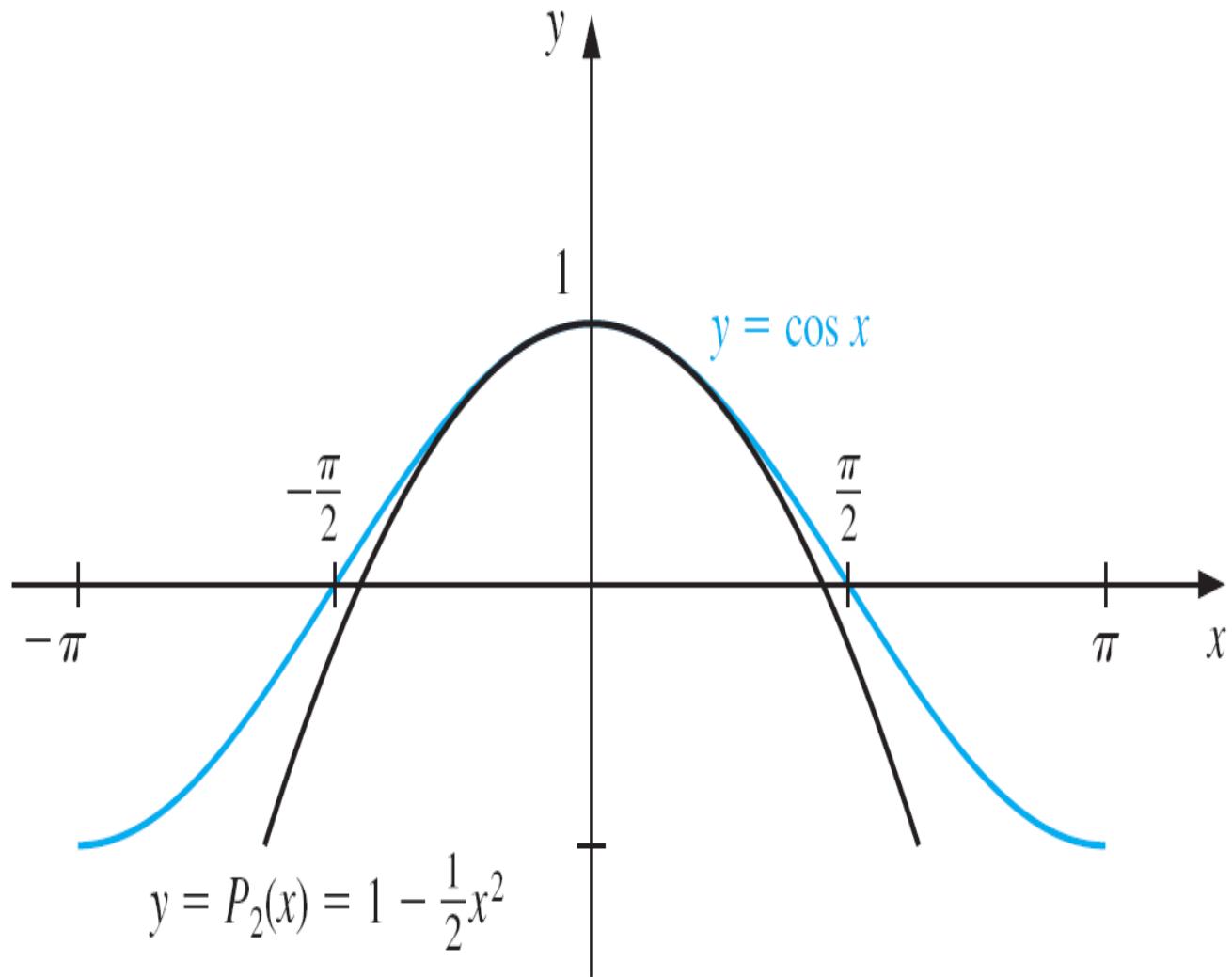


Figure 1.11

